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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

11011 U.S. PTO
10/046536
01/16/02

In re Patent Application of

HIRSCH et al

Atty. Ref.: 4114-2

Serial No. Unknown

Group:

Filed: January 16, 2002

Examiner:

For: SPEECH ANALYZING STAGE AND METHOD FOR
ANALYZING A SPEECH SIGNAL

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January 16, 2002

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

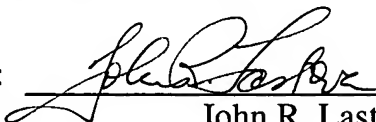
As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached form PTO-1449, a copy of each of which is enclosed. This is not to be construed as a representation that a search has been made or that no better prior art exists, or that a reference is relevant merely because cited.

The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

HIRSCH et al
Serial No. Unknown

Respectfully submitted,

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**INFORMATION DISCLOSURE
CITATION**

ATTY. DOCKET NO.

SERIAL NO.

4114-2

Unknown

APPLICANT

HIRSCH et al

FILING DATE

GROUP

(Use several sheets if necessary)

January 16, 2002

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|----------------------|-----------------|---------|---------------|-------|----------|-------------------------------|
| | 5,093,855 | 03/1992 | VOLLERT et al | | | |
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FOREIGN PATENT DOCUMENTS

| DOCUMENT | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

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| | ETSI STANDARD: "ETSI ES 201 108 V. 1.1.2 (200-04)" INTERNET ARTICLE, 'Online! XP002168143 Retrieved from the Internet: URL: www.etsi.org 'retrieved on 2001-05-22! * paragraph '0004! – paragraph '0006! * |
| | SSNDERSON C ET AL: "Effect of different sampling rates and feature vector sizes on speech recognition performance" TENCON '97 BRISBANE – AUSTRALIA. PROCEEDINGS OF IEEE TENCON '97. IEEE REGION 10 ANNUAL CONFERENCE. SPEECH AND IMAGE TECHNOLOGIES FOR COMPUTING AND TELECOMMUNICATIONS (CAT. NO.97CH36162), TENCON '97 BRISBANE – AUSTRALIA PROCEEDINGS OF IEEE TENCON '97, pages 161-164 vol. 1, XP002168144 1997, New York, NY, USA, IEEE, USA ISBN: 0-7803-4365-4 *abstract * * paragraph '0001!; figures 1-6 * |
| | GULZOW T ET AL: "Comparison of a discrete wavelet transformation and a nonuniform polyphase filterbank applied to spectral-substraction speech enhancement" SIGNAL PROCESSING. EUROPEAN JOURNAL DEVOTED TO THE METHODS AND APPLICATIONS OF SIGNAL PROCESSING, NL, ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, vol. 64, no. 1, 1998, pages 5-19, XP004108820 ISSN: 016501684 * abstract * * paragraph '03.1! – paragraph '03.2! * |
| | FULTON J A ET AL: "Sampling rate versus quantisation in speech coders" SIGNAL PROCESSING. EUROPEAN JOURNAL DEVOTED TO THE METHODS AND APPLICATIONS OF SIGNAL PROCESSING, NL. ELSEVIER SCIENCE PUBLISHERS B.V. AMSTERDAM, vol. 56, no. 3, 1 February 1997 (1997-02-01), pages 209-218, XP003059508 ISSN: 0165-1684 * abstract * |
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| *Examiner | Date Considered |

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.